

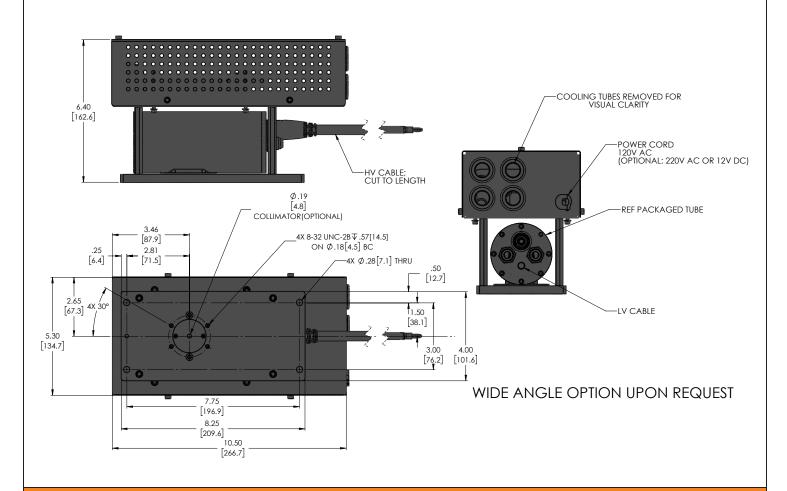
AQUACHILL



The **Aquachill** is an actively cooled X-Ray source that combines MXR's Packaged X-ray Tube with a chilled water heat exchangers to allow for maximum power tube settings in challenging environments. This product includes high voltage cable, filament cable, and power plug. Power supply available upon request.

Features include:

- Maintains internal oil temperatures at safe levels in elevated ambient conditions.
- Extends environmental operating range of the X-ray source.
- Plug and play operation.







AQUACHILL SPECIFICATIONS

Max. Power	100W
Max. Voltage	60kV
Pump/Fan Input Power	120/220VAC or 12/24VDC
Water Pressure	Up to 250-290psi
Coolant	Recommended: Di Water, Ethelyne Glycol 30%, Benzotiazole 1%¹
Flow Rate	5L/min
Pump/Fan Cable Length	1m
Weight	12lbs
Safety	Thermal Switch ²

- ¹ Confirm with chiller manufacturer's recommendations.
- ² Shuts off device when internal temperatures reach 70°C.

PACKAGED TUBE SPECIFICATIONS

Polarity	Grounded Cathode
Flange Type	(6) 8-32 thread
Max. Voltage	60kV ¹
Max. Power	75W ²
Max. Filament Current	1.7A, 2.0A²
Anode Current	2mA for 1.7A filament 5mA for 2.0A filament
Beam Angle	25°, 40°
Focal Spot	50μm ±50% Tolerance
Window Thickness	127µm³
Target Material	Mo, W, Rh, Cu ⁴
Cooling	Air cooled, 150 CFM fan recommended

- ¹ Refer to Figure 1 and 2 to determine optimal operational parameters.
- ² Information about 2.0A filament option can be found at https://microxray.com.
- ³ More window options available upon request.
- ⁴ Other target materials available upon request.

GENERAL

The customer is responsible for controlling the high voltage and filament current and designing the cooling system. Selecting an appropriate power supply is crucial to protect the X-ray tube from overcurrent and overvoltage. Sufficient cooling is required when operating the X-ray tube. Failure to do so may damage the tube and radiation protection, posing a hazard.

FIGURE 1 - 1.7mA Filament

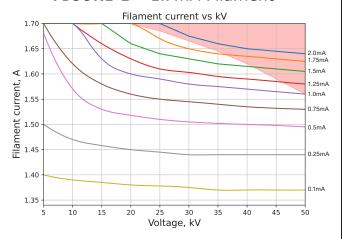
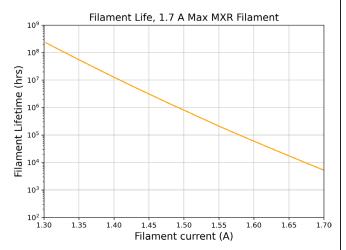


FIGURE 2



RADIATION PROTECTION

The customer is responsible for radiation protection and must ensure compliance with local regulatory requirements and limit values.





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